



LOXEAL®

ENGINEERING ADHESIVES

PUT IT ON & GO TO SLEEP



INDUSTRIAL GRADE UV CURING ADHESIVE

LOXEAL 30-20

Technical Data



Overview:

Loxreal® UV 30-20 is a Fast Curing, High Strength, Ultra Violet curing adhesive. Specially designed for glass and crystal bonding in the manufacturing of decorative tableware. Household, furnishing accessories, bonbonnières and gift articles. Its good optical clarity is ideal for bonding of precious crystals.

Physical Properties

Composition: Methacrylate Ester
 Colour: Clear
 Viscosity (+25°C – mPas): 2,200 – 2,900
 Specific Weight (g/ml): 1.1
 Curing time UV (365nm): 6 to 10 seconds
 Gap size to fill: 0.03mm / 1.5mm
 Flash Point: > +100°C
 Shelf Life: 12 months at 25°C in original unopened packaging

Curing Properties

To obtain the best features, clean and dry parts to bond. The polymerisation UV is belonging to the intensity of the UV lamp, to the distance from the UV light source, to the bondline gap and to the light transmittance of the substrate the light shall pass through. We recommend high intensity UV light sources with minimum radiation between 365 nm and 420 nm at 100mW/cm². curing time may vary according to adhesive gap.

Properties Of Cured Adhesive

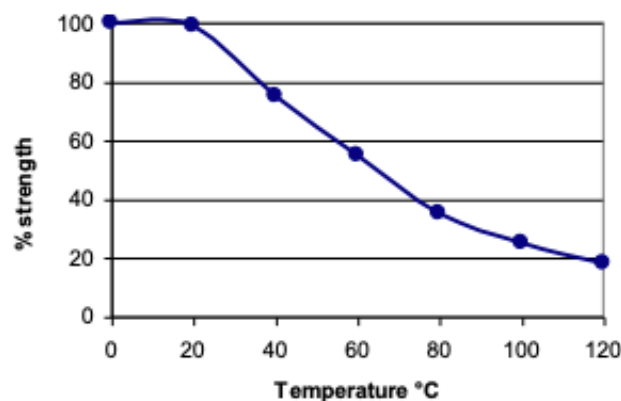
Tensile strength (ASTM D-2095-69): 10 – 14 N/mm²
 Hardness (Shore D): 50 – 65
 Elongation at break: 80 – 100%
 Temperature range: -55°C/+120°C
 Refractive index: 1.49
 Light transmittance : > 98%
 Coefficient of thermal expansion: 85 x 10⁻⁶ mm/mm/°C
 Dielectric constant (+25°C 1000 Hz): 4
 Dielectric strength: 10 – 12 kV/mm

Safety and Handling:

Consult the Safety Data Sheet before use.

Environmental Resistance

The graph below shows the mechanical strength vs. temperature. Specimen steel and glass (ISO 6922)



Chemical Resistance

Aged under conditions shown below after 24 hours from polymerisation at indicated temperature.

Substance	°C	Resistance After 100 H	Resistance After 500 H	Resistance After 1,000 H
Alcohol	25	Excellent	Excellent	Excellent
Gasoline	25	Excellent	Excellent	Good
R.H 90%	40	Low	Low	Low
Refrigerant gases	25	Excellent	Excellent	Excellent

Storage:

We recommend to store this product in a cool and dry place at temperature not exceeding +25°C. To avoid contaminations, do not refill containers with used products. For more information on applications, storage and handling, contact Loxreal Technical Service.

Everjoy Industrial Supplies Pte. Ltd.

38 Woodlands Industrial Park E1, #04-11 Singapore 757700

Tel.: +65 6748 3093 Fax: +65 6748 7202 Email: salesmgnt@everjoy.com.sg

Note:

The data contained herein, obtain in Loxeal laboratories, are given for information only; if specifics are required, please contact Loxeal technical department. Loxeal ensures abiding quality of supplied products according to its own specifics. Loxeal cannot assume responsibility for the results obtained by others which methods are not under Loxeal control. It is user's responsibility to determine suitability for user's purpose of any product mentioned herein. Loxeal disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of Loxeal products. Loxeal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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Tel.: +65 6748 3093 Fax: +65 6748 7202 Email: salesmgnt@everjoy.com.sg